



LUND UNIVERSITY

Comparing Planning Processes in Smartphone Text Messaging to Traditional Writing

Gullberg, Kajsa

2022

Document Version:

Publisher's PDF, also known as Version of record

[Link to publication](#)

Citation for published version (APA):

Gullberg, K. (2022). *Comparing Planning Processes in Smartphone Text Messaging to Traditional Writing*. Poster session presented at SIG Writing 2022, Umeå, Sweden.

Total number of authors:

1

General rights

Unless other specific re-use rights are stated the following general rights apply:

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Read more about Creative commons licenses: <https://creativecommons.org/licenses/>

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

LUND UNIVERSITY

PO Box 117
221 00 Lund
+46 46-222 00 00

Comparing Planning Processes in Smartphone Text Messaging to Traditional Writing

KAJSA GULLBERG | LUND UNIVERSITY | CENTRE FOR LANGUAGES AND LITERATURE
kajsa.gullberg@ling.lu.se

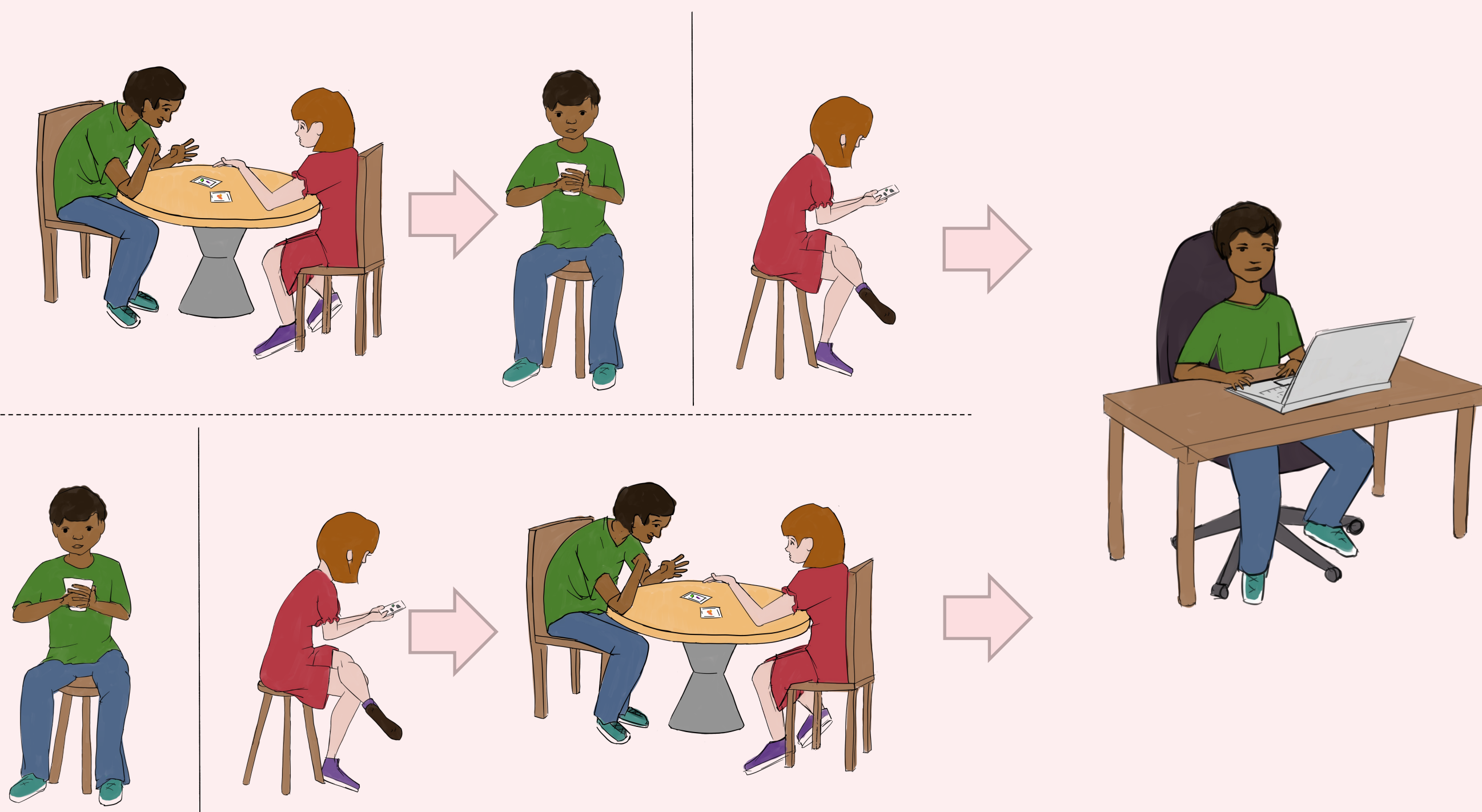
Introduction and Aim

The aim of this experimental study is to compare people's planning processes during smartphone texting to their planning processes during traditional, monological writing. At what locations do pauses occur in the two conditions? And is there a difference in the length of the production bursts?

One key difference between writing and texting is that despite both of them being communicative, texting may have a temporally present yet spatially absent reader of the text – meaning that the reader in texting is able to ask questions if something is unclear.

Method

13 dyads spoke and texted together, and then wrote an individual blog post in the keystroke logging program ScriptLog.



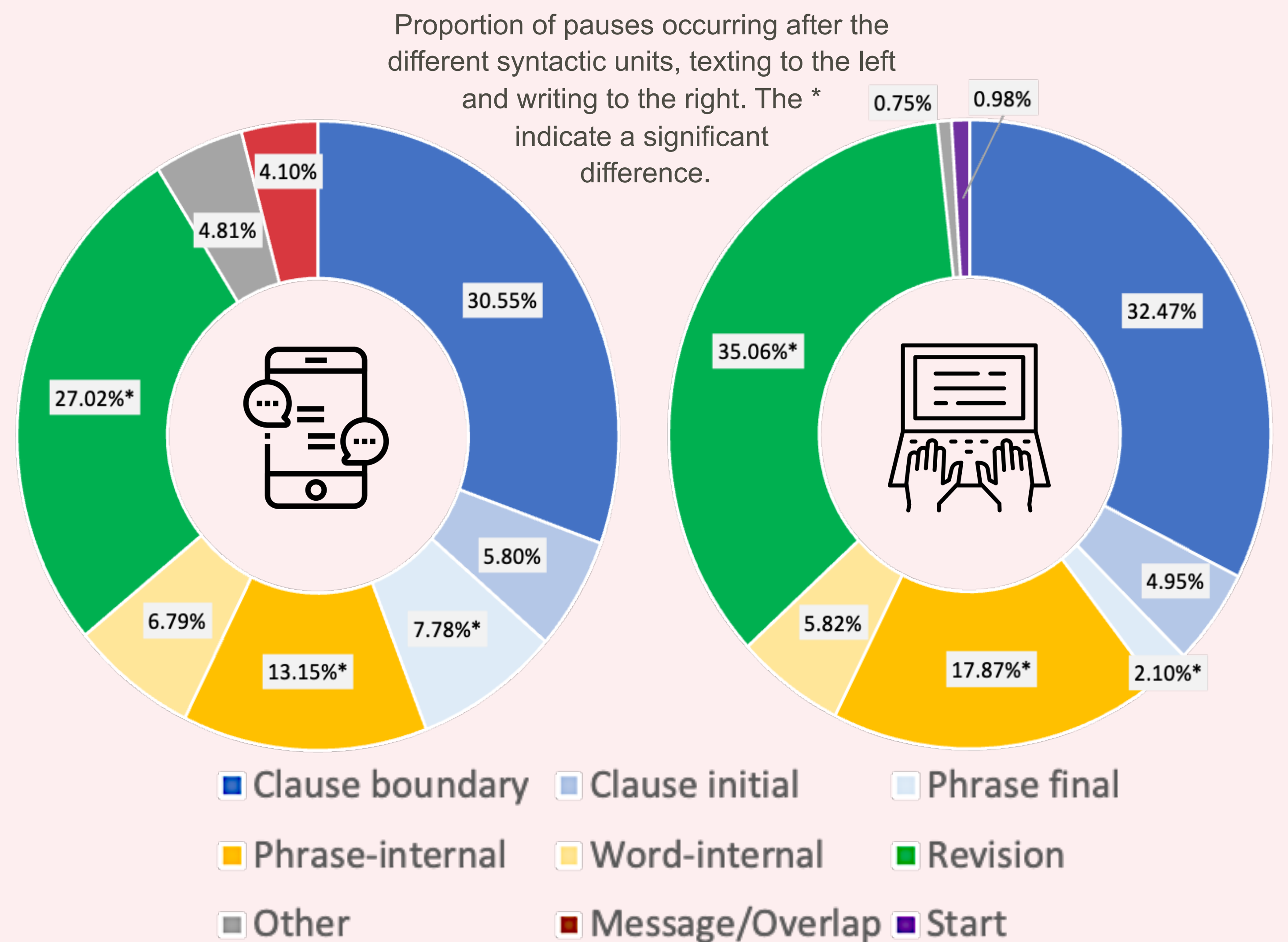
Planning processes for texting and writing were examined through pause analyses. The pause threshold was 1 second in texting and 2 seconds in writing.

Pauses were coded based on the unit that preceded them: *clause boundary*, *clause initial (word)*, *phrase final*, *phrase-internal*, *word-internal*, *revision*, *message/overlap*, or *other*. The number of words produced between pauses were counted to measure the length of production bursts.



References

- Hayes, J. R., & Flower, L. S. (1980). Identifying the Organization of the Writing Process. In L. Gregg & E. Steinberg (Eds.), *Cognitive Processes in Writing* (pp. 3-33). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Matsuhashi, A. (1981). Pausing and Planning: The Tempo of Written Discourse Production. *Research in the Teaching of English*, 15(2), 113-134.
- Spelman Miller, K. (2006). The pausological study of written language production. In K. P. H. Sullivan & E. Lindgren (Eds.), *Studies in writing, vol 18, Computer Keystroke Logging: Methods and Applications* (pp. 11-30). Oxford: Elsevier.
- Wengelin, A., Frid, J., Johansson, R., & Johansson, V. (2019). Combining keystroke logging with other methods. Towards an experimental environment for writing process research. In E. Lindgren & K. Sullivan (Eds.), *Observing writing: insights from keystroke logging and handwriting* (pp. 30-49). Leiden, Netherlands: Brill Publishing.



Data Typing by Azam Ishaq from NounProject.com
Chat by Suppakorn Srikaew from NounProject.com

Results

There was no significant difference in the proportion of pauses in speaking or writing that were **between clauses**, **word-internal** or after a **clause initial word**.

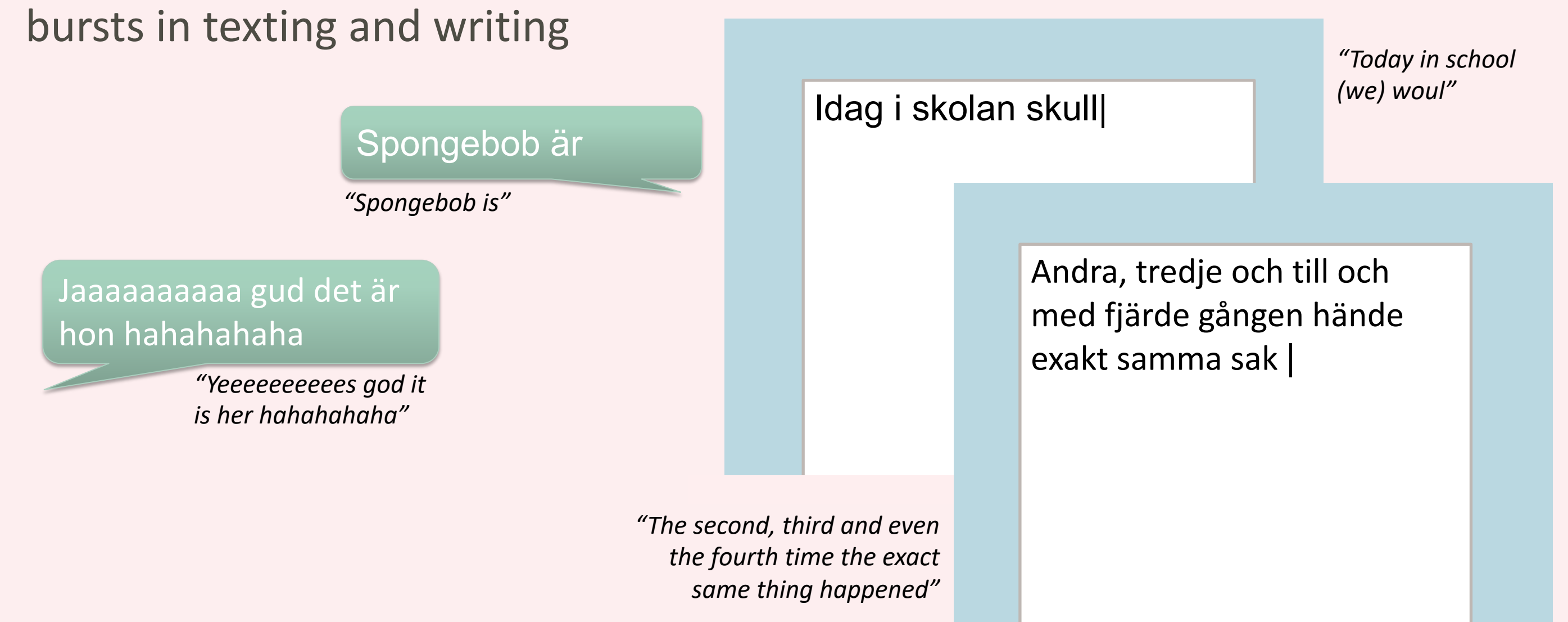
In writing, pauses preceded by a **revision** or that were **phrase-internal** were significantly more common than in texting.

In texting, pauses that were preceded by a complete **phrase** were significantly more common than in writing.

There were similarities between texting and writing, but also some differences. Most pauses in both texting and writing occurred at syntactic boundaries of some kind, but there were more revisions in writing.

The mean length of production bursts was significantly shorter in texting, with 2.5-5.9 words per burst across the participants, in writing the mean length was 3.4-11.9 words per burst.

Examples of the shortest and longest *mean* length of production bursts in texting and writing



Conclusions

- ❖ We prefer to plan and produce language in complete syntactic units (e.g. clauses, phrases).
- ❖ Production bursts are shorter in texting than in writing.
 - The **temporally present reader** makes the texting setting dialogical which requires quick answers.
- ❖ Traditional writing contains more revisions.
 - It is important that the reader, who is spatially and temporally absent, can **understand without the direct context** where the text was written.